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US-PAT-NO: 6001634

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TITLE: Recombinant negative strand RNA viruses

DATE-ISSUED: December 14, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Palese; Peter	Leonia	NJ	07605	
Garcia-Sastre; Adolfo	New York	NY	10029	

US-CL-CURRENT: 435/235.1; 435/320.1

## CLAIMS:

What is claimed is:

1. A chimeric virus comprising influenza virus containing a heterologous RNA segment from another strain of influenza virus comprising the reverse complement of an mRNA coding sequence operatively linked to a binding site specific for an RNA-directed RNA polymerase of a negative strand RNA virus.
2. The chimeric virus of claim 1 in which the heterologous RNA segment is a hemagglutinin (HA) RNA segment from another strain of influenza virus.
3. The chimeric virus of claim 1 in which the heterologous RNA segment is a neuraminidase (NA) RNA segment from another strain of influenza virus.
4. A chimeric virus comprising influenza virus containing eight genomic segments from different strains of influenza virus, each of the segments comprising the reverse complement of an mRNA coding sequence operatively linked to a binding site specific for an RNA-directed RNA polymerase of a negative strand RNA virus.
5. The chimeric virus of claim 1 or claim 4 in which the binding site is specific for an RNA-directed RNA polymerase of an influenza virus.
6. The chimeric virus of claim 4 which contains HA and NA genomic segments from one strain of influenza virus and the remaining genomic segments from another strain of influenza virus.